

FIGURE 1

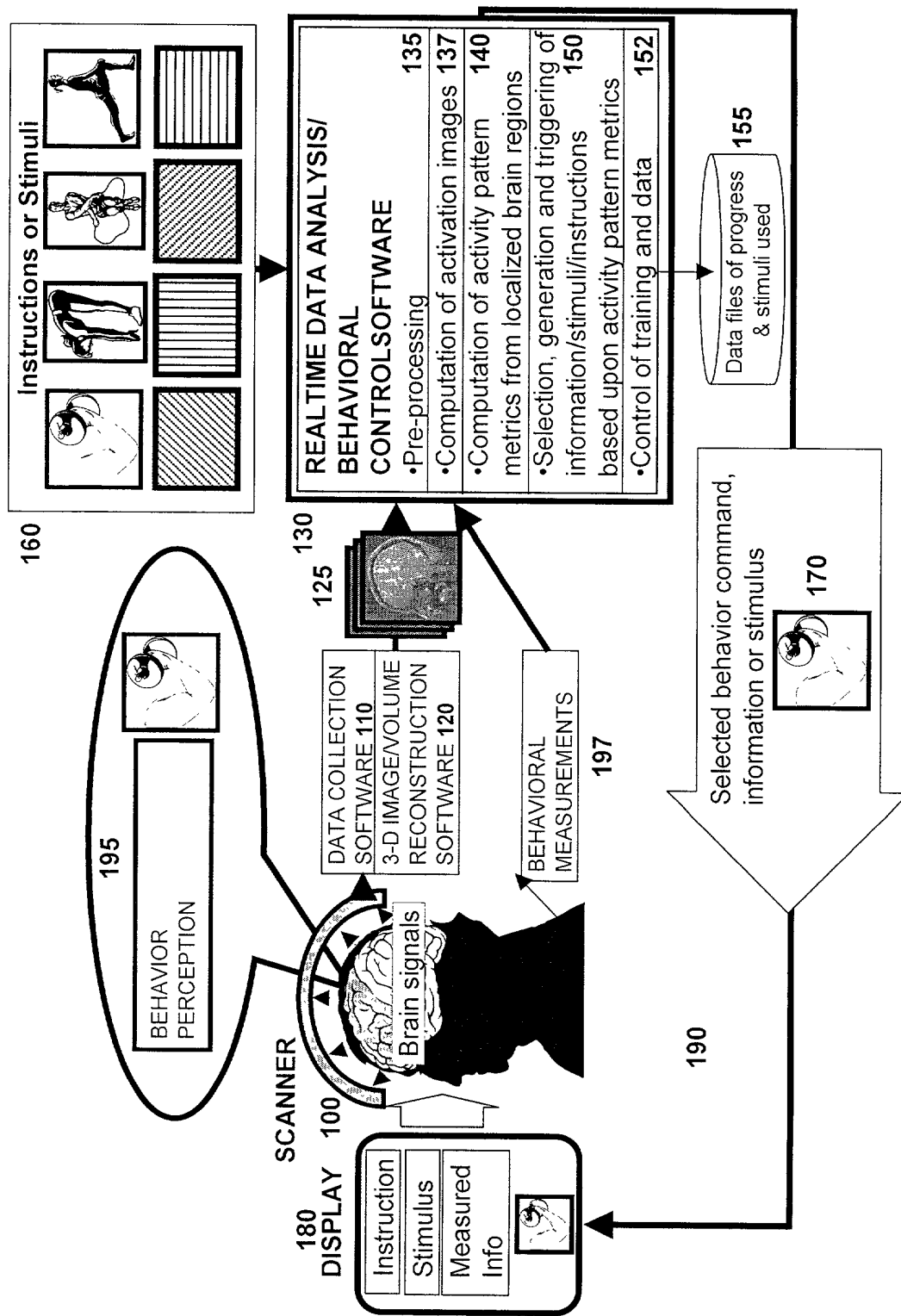


FIGURE 2

FOREBRAIN		
Diencephalon	Parietal lobe	Cochlear nuclei
Subthalamus	Frontal lobe	Medullary reticular formation
Zona incerta	Cerebral white matter	Solitary nucleus
Subthalamus	Anterior commissure	Inferior olivary complex
Hypothalamus	Internal capsule	Vestibular nuclei
Intermediate hypothalamic region	Corpus callosum	Metencephalon
Hypophysis	Basal ganglia	Cerebellum
Adenohypophysis	Amygdala	Deep cerebellar nuclei
Neurohypophysis	Globus pallidus	Dentate nucleus
Thalamus (including all sub-divisions)	Striatum	Fastigial nucleus
Metathalamus	Substantia nigra	Globose nucleus
Medial geniculate body	(pars compacta and pars reticulata)	Emboliform nucleus
Lateral geniculate body	Caudate nucleus	Cerebellar cortex
Epithalamus	Putamen	Flocculonodular lobe
Habenula	Septum	Posterior lobe
Pineal body	Fornix	Vermis of posterior lobe
Telencephalon	Olfactory bulb	Anterior lobe
Cerebral cortex including all 47 areas as described by Brodmann	MIDBRAIN	Pons
Archicortex	Cerebral Peduncle	Basal part of pons
Hippocampal formation	Substantia nigra	Pontine nuclei
Hippocampus	Midbrain tegmentum	Pontine tegmentum
Dentate gyrus	Midbrain reticular formation	Pontine reticular formation
Subiculum	Red nucleus	Superior olivary complex
Parahippocampal gyrus	Oculomotor nuclei	Locus ceruleus
Cingulate gyrus	Tectum	
Occipital lobe	Inferior colliculus	
Temporal lobe	Superior colliculus	
Insula	Pretectal region	
	HINDBRAIN	
	Medulla oblongata	

A more complete list is available in cited neuroanatomical texts.

FIGURE 3

Alzheimer's Disease	Chronic Pain	Lateral Medullary	Obesity	Spinal Cord Injury
Amyotrophic Lateral Sclerosis	Chronic Regional Pain Syndrome	Syndrome	Occipital Neuralgia	Spinal Cord Tumors
Anxiety Disorders	Cns Trauma	Learning Disabilities	Overuse Syndrome	Stroke
Aphasia	Cushing's Syndrome	Leigh's Disease	Pain - Chronic	Sturge-Weber Syndrome
Apraxia	Dandy-Walker Syndrome	Lewy Body Dementia	Paresthesia	Tardive Dyskinesia
Asperger Syndrome	Dementia - Multi-Infarct	Lisencephaly	Parkinson's Disease	Tay-Sachs Disease
Attention Deficit-Hyperactivity Disorder	Dementia With Lewy Bodies	Locked-In Syndrome	Parkinson's Disease	Temporal Arteritis
Autism	Depression	Lou Gehrig's Disease	Parmyotonia	Tic Douloureux
Autonomic Dysfunction	Diabetic Neuropathy	Lupus - Neurological Sequelae	Congenita	Tourette Syndrome
Back Pain	Diffuse Sclerosis	Lyme Disease - Neurological Sequelae	Parry Romberg	Traumatic Brain Injury
Bell's Palsy	Dysgraphia	Meningitis	Pervasive	Tremor
Bipolar Disorder	Dyslexia	Migraine	Developmental Disorders	Trigeminal Neuralgia
Brain and Spinal Tumors	Dystonias	Mini-Stroke	Pick's Disease	Wallenberg's Syndrome
Brain Aneurysm	Encephalitis and Meningitis	Motor Neuron Diseases	Pinched Nerve	Zellweger Syndrome
Brain Injury	Epilepsy	Multiple Sclerosis	Pituitary Tumors	
Carpal Tunnel Syndrome	Epilepsy	Muscular Dystrophy (MD)	Postherpetic Neuralgia	
Causalgia	Friedreich's Ataxia	Myasthenia Gravis	Repetitive Motion Disorders	
Central Pain Syndrome	Gaucher's Disease	Myoclonus	Repetitive Stress Injuries	
Cerebral Aneurysm	Guillain-Barre Syndrome	Myopathy	Restless Legs Syndrome	
Cerebral	Head Injury	Myotonia Congenita	Rett Syndrome	
Arteriosclerosis	Headache	Narcolepsy	Schizophrenia	
Cerebral Palsy	Herpes Zoster	Neurofibromatosis	Seizure Disorder	
Charcot-Marie-Tooth Disorder	Huntington's Disease	Neurological Manifestations of AIDS	Shingles	
Chiari Malformation	Hydrocephalus	Neuronal Migration Disorders	Sleep Apnea	
Chorea	Landau-Kleffner Syndrome	Niemann-Pick Disease	Sleep Disorders	
			Spasticity	
			Spina Bifida	

FIGURE 4

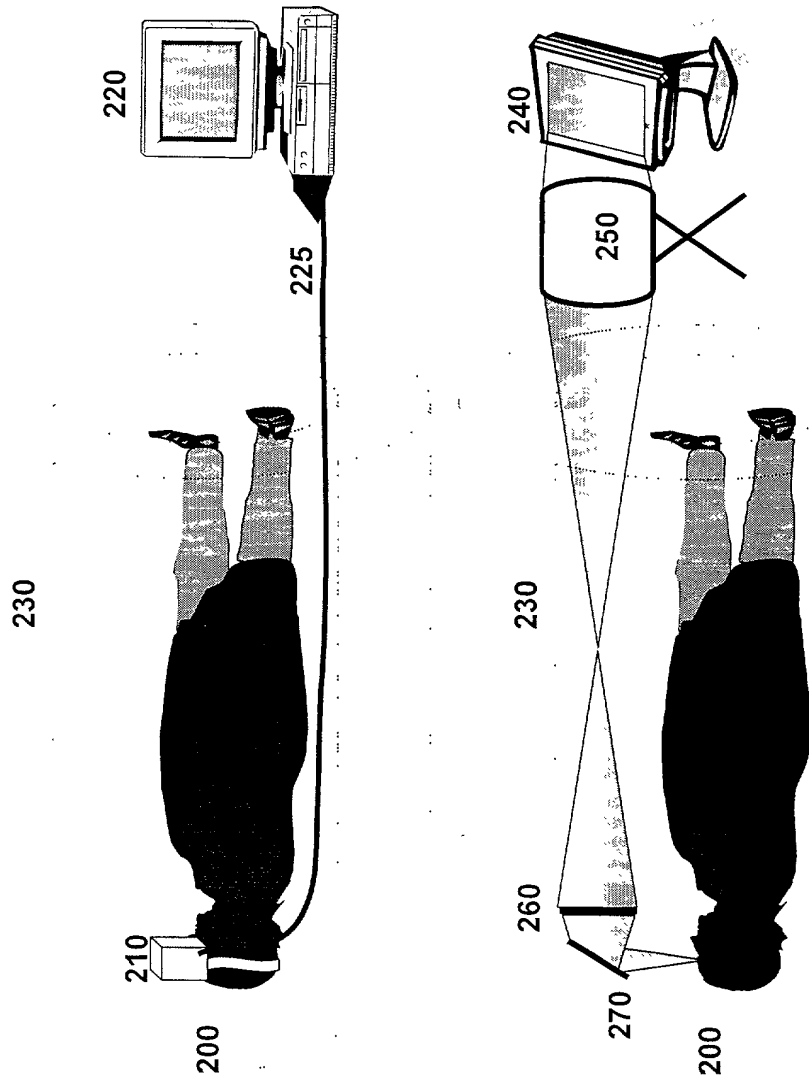


FIGURE 5

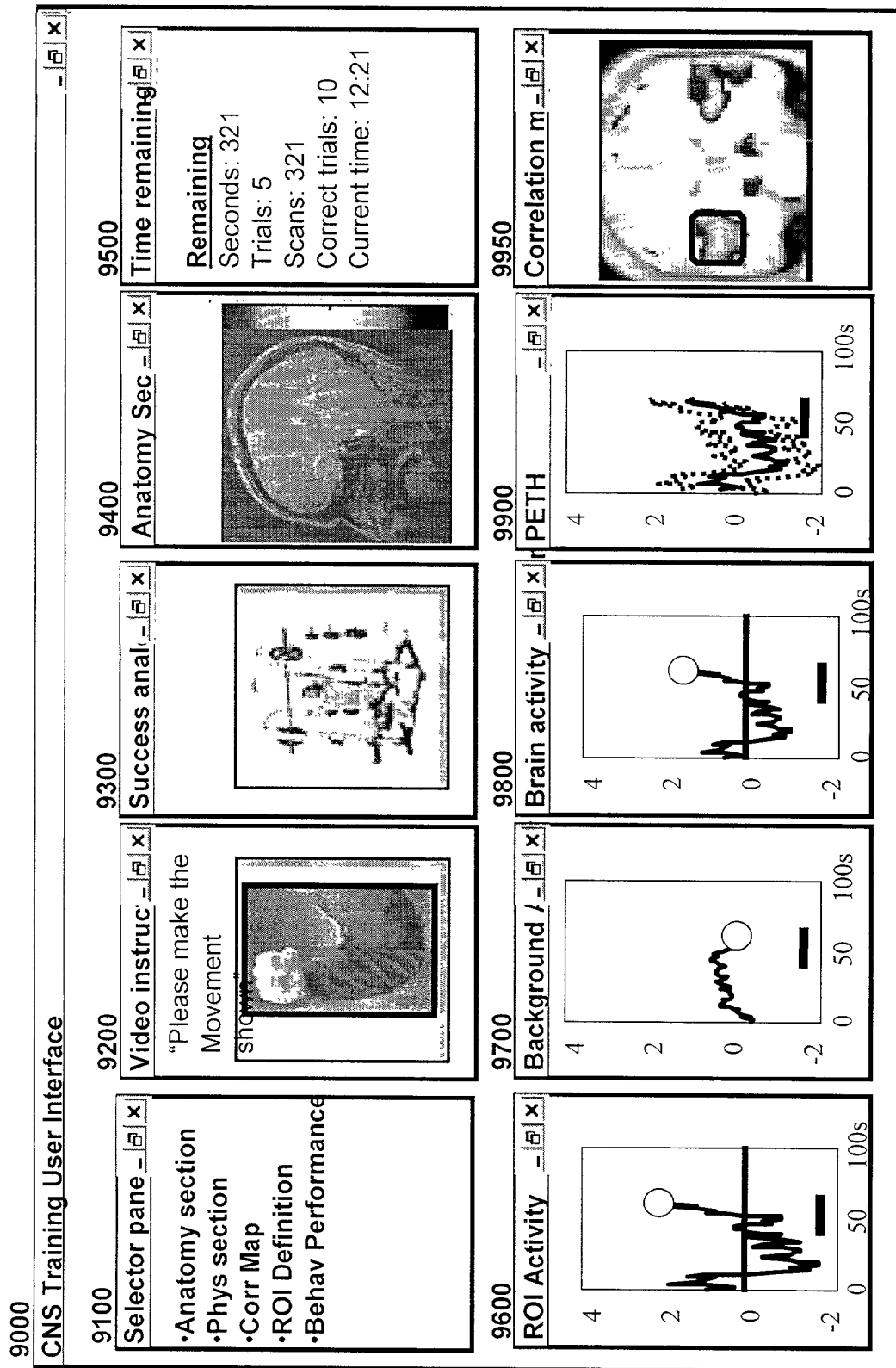


FIGURE 6

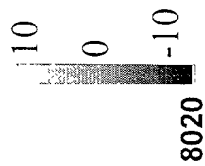
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CNS Training User Interface

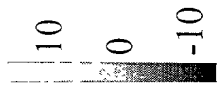
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Physiological localization of ROI

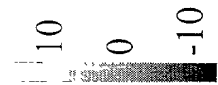
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Section 1



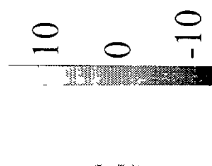
Section 2



Section 3



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Section 4



Section 5



Section 6



Section 7



Section 8

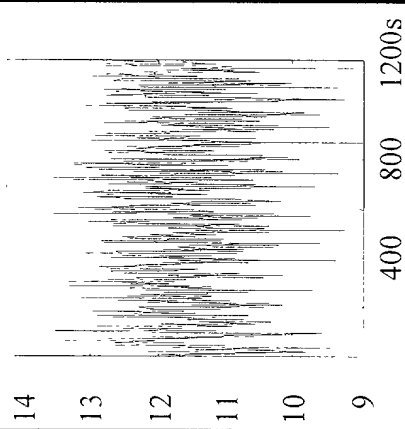


Section 9



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ROI Timecourse



8200

ROI PETH

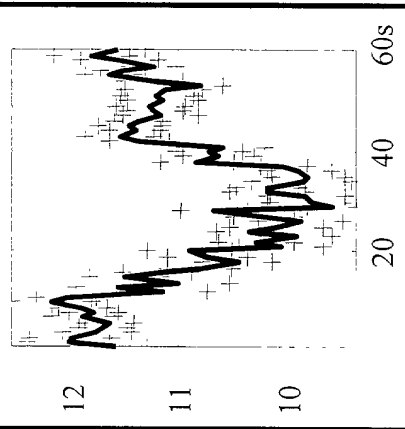


FIGURE 7

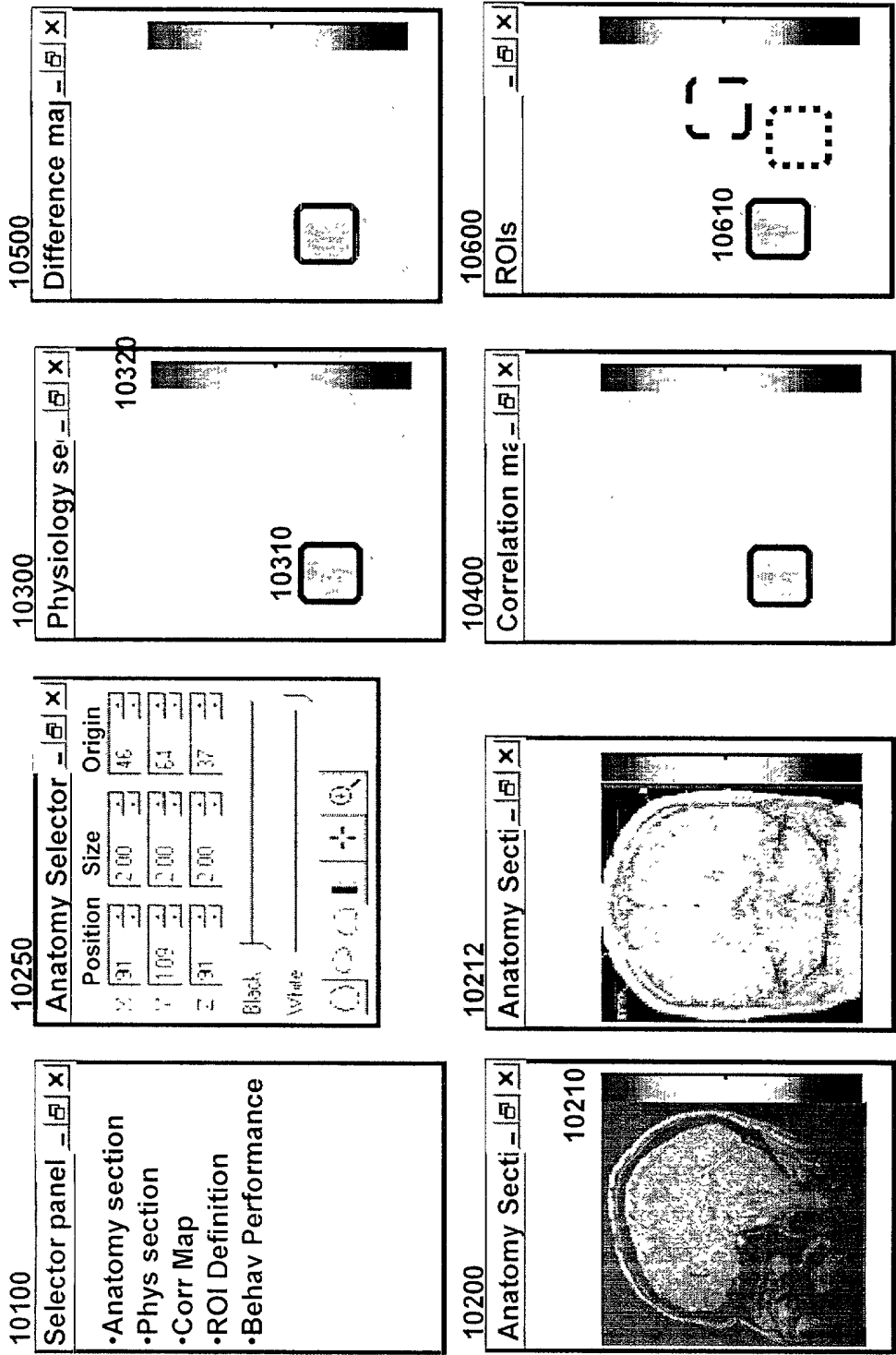


FIGURE 9

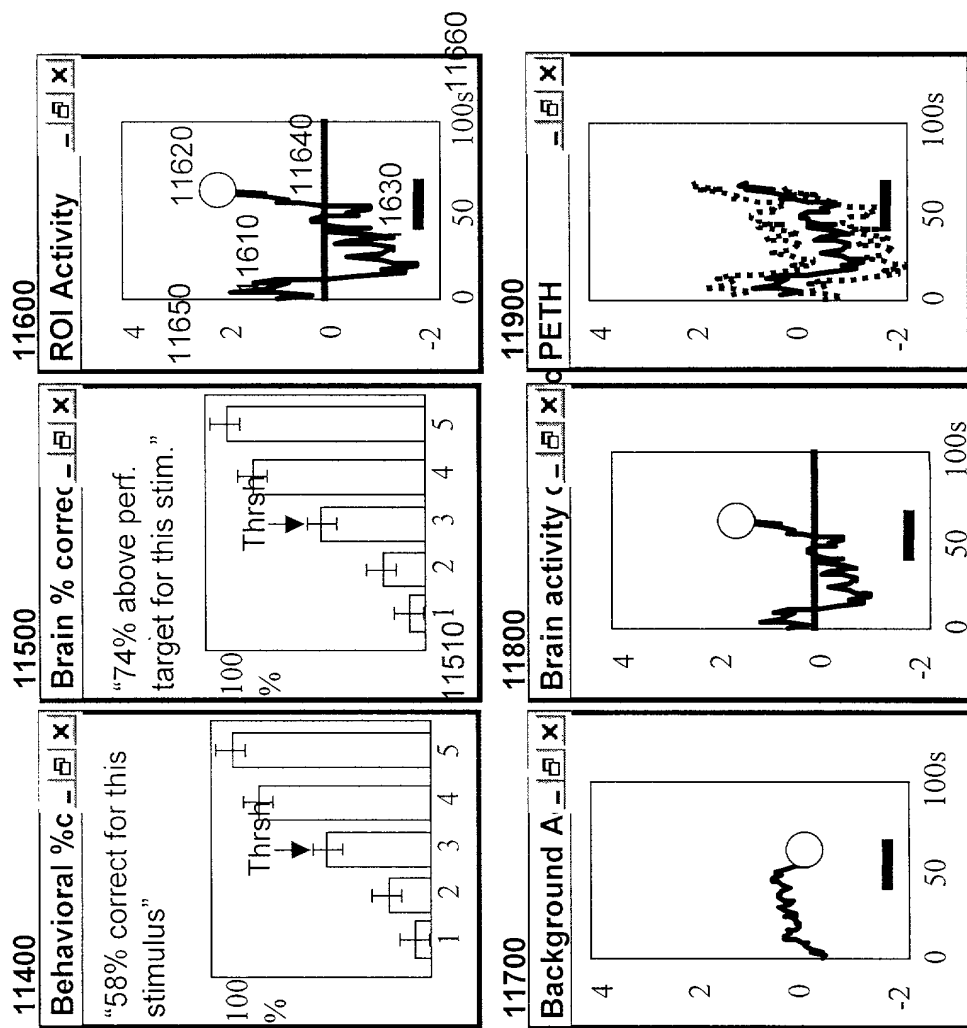


FIGURE 10

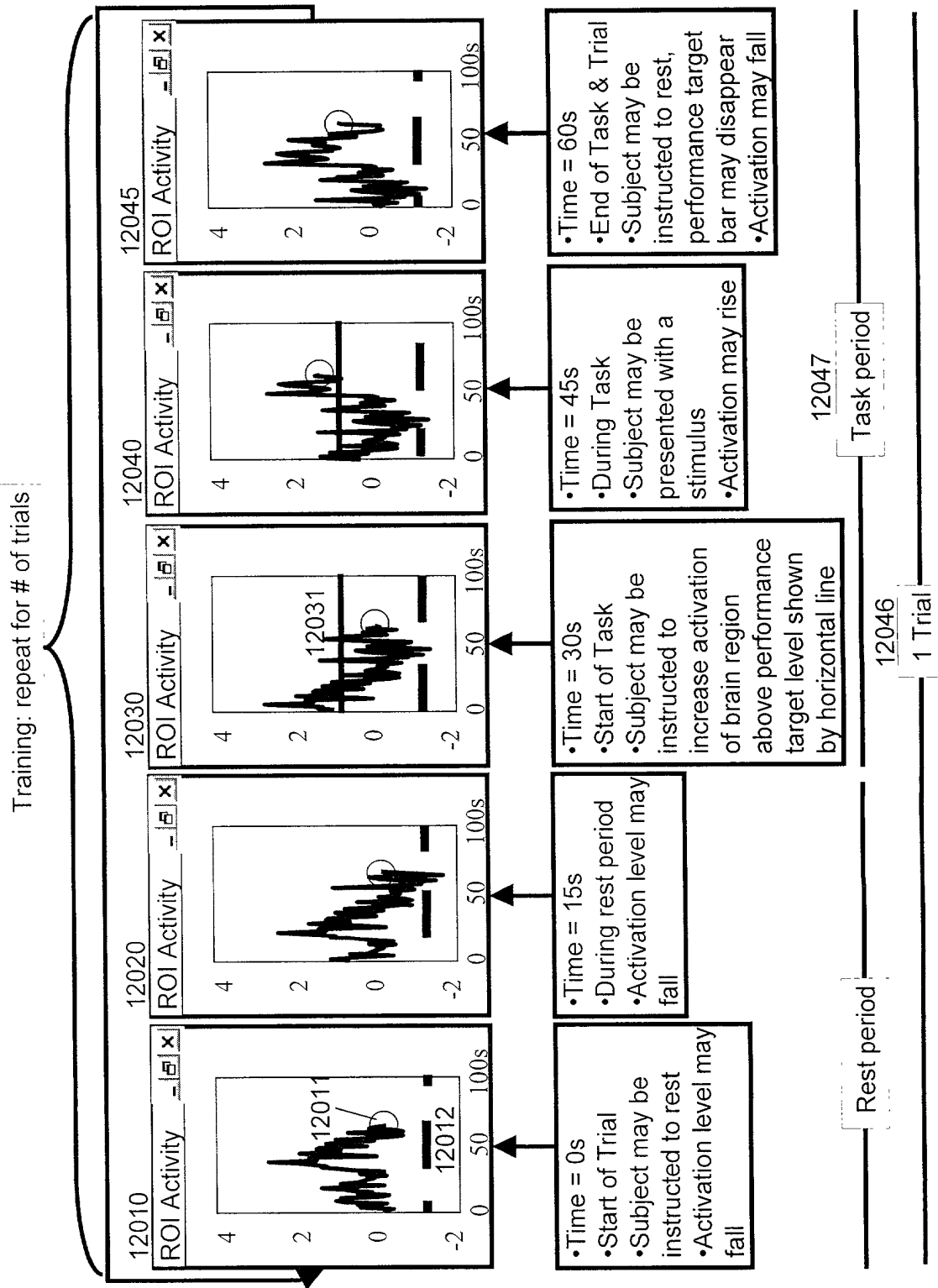


FIGURE 11

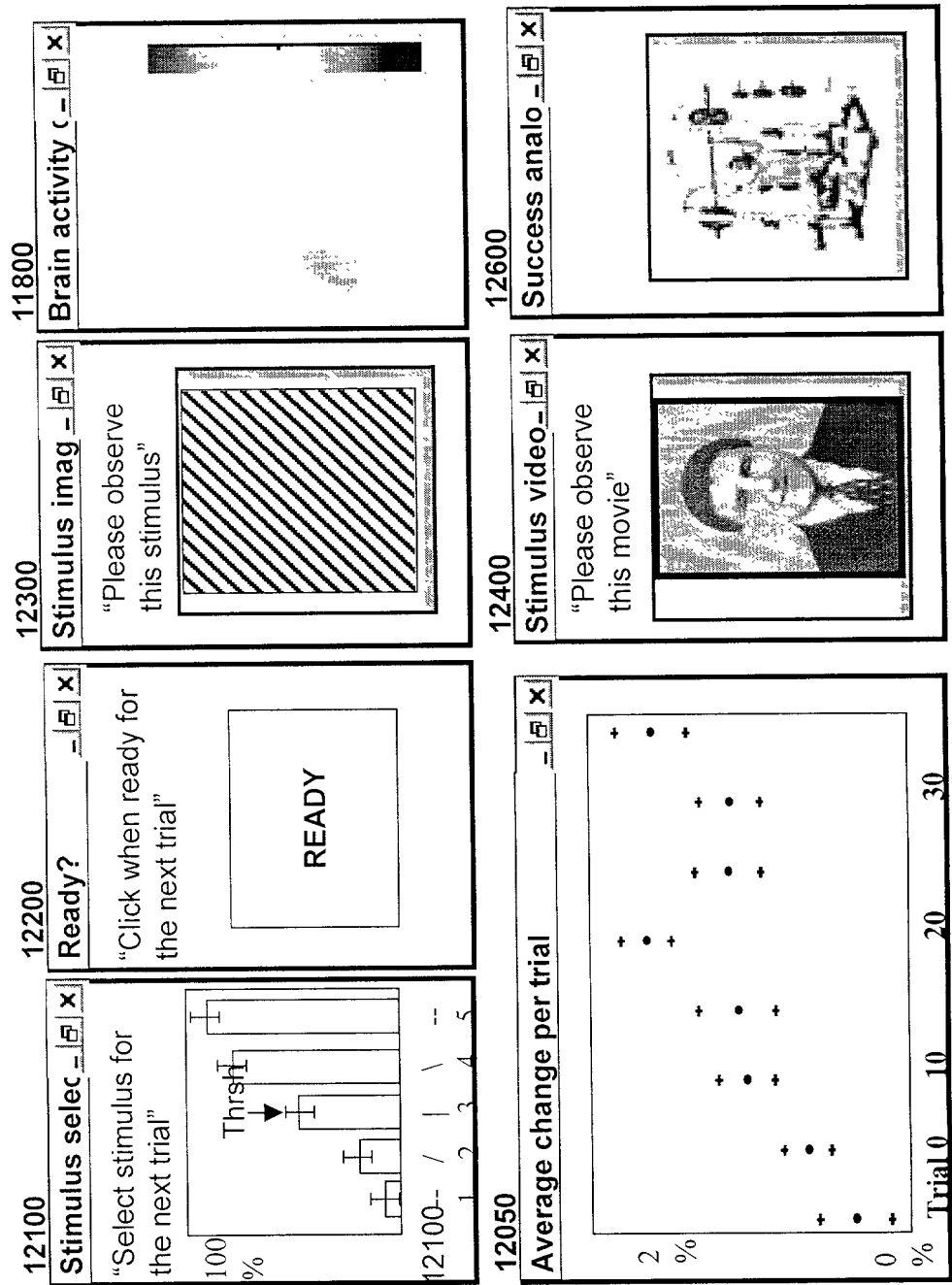


FIGURE 12

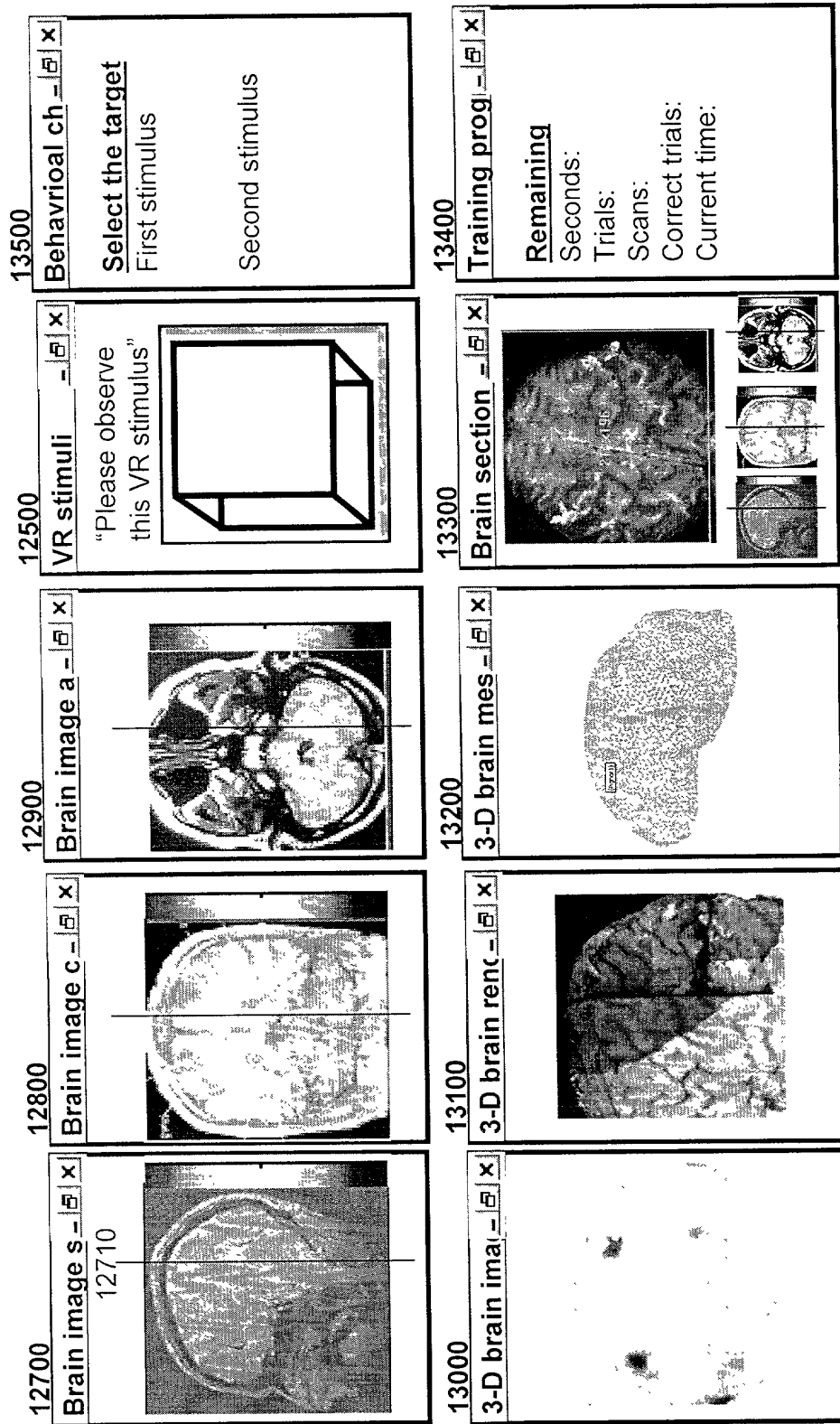


FIGURE 13

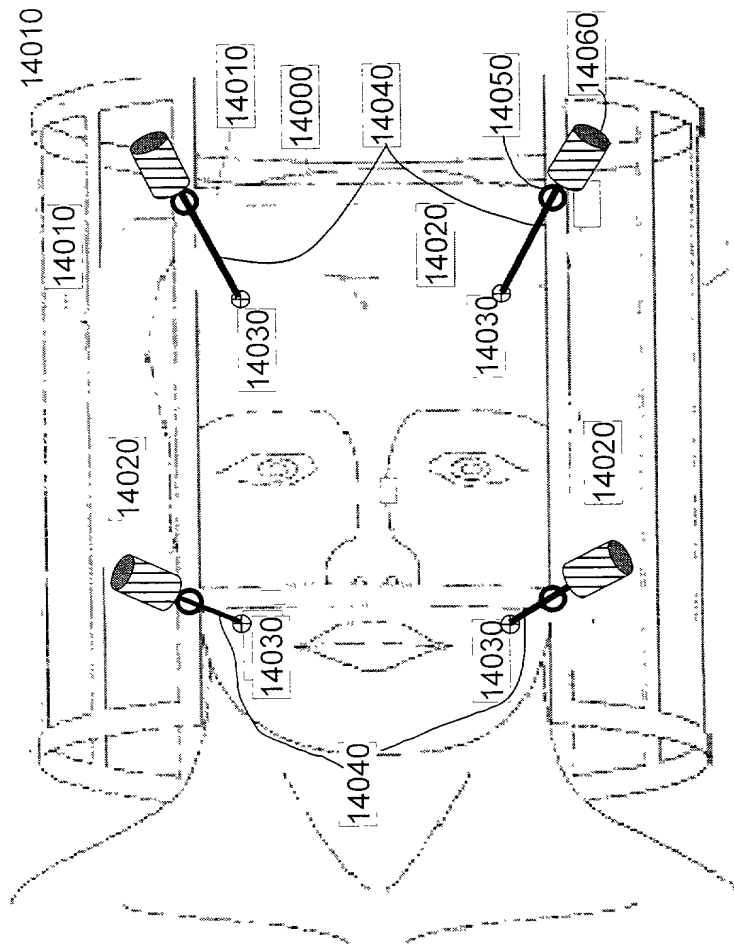


FIGURE 14

Region	Coords.	Condition	Neuro-modulator
subthalamus	X=+10 Y=-13 Z=-4	PD	-
substantia nigra	X=+10 Y=-17 Z=-8	PD, Schz	DA
thalamus nucleus VA ventro anterior	X=+10 Y=-5 Z=8	PD	-
nucleus accumbens	X=+10 Y=7 Z=-8	SA, Rew, Schz	DA
thalamus nucleus VL ventrolateral	X=+14 Y=-11 Z=8	PD	-
globus pallidus internus	X=+15 Y=-2 Z=-4	PD	-
pulvinar nucleus	X=+15 Y=-27 Z=4	ADD	-
thalamus nucleus VP	X=+17 Y=17 Z=9	Pain	-
locus coeruleus	X=+2 Y=-31 Z=-14	ADD, SA, Rew	NA
globus pallidus externus	X=+20 Y=-2 Z=-4	PD	-
amygdala	X=+22 Y=-5 Z=-12	Pain	-
medial frontal lobe	X=+3 Y=14 Z=40	Pain	-
periaqueductal gray matter	X=0 Y=-26 Z=-12	Pain	opiates
raphe dorsalis	X=+2 Y=-30 Z=-12	Pain	5-HT
nucleus basalis of Meynert	X=+4 Y=1 Z=-12	AD, learning & plasticity	Ach
dorsolateral pre-frontal cortex	X=+28 Y=34 Z=35	Dep	-
anterior pre-frontal cortex	X=+17 Y=64 Z=16	Dep	-
rostral ventromedial medulla	X=2 Y=-28 Z=-28	Pain	opiates
nucleus raphe magnus	X=2 Y=-30 Z=-28	Pain	5-HT, opiate
thalamus nucleus Vim ventrointeromedial	X=+7 Y=-12 Z=4	PD	-
Brodman's areas 4	X=+48 Y=-15 Z=40	Motor impairments	-
Brodman's areas 6	X=59 Y=-9 Z=40	Motor impairments	-
PD - Parkinson's disease; AD - Alzheimer's disease; ADD - attention & attention deficit/attention deficit/hyperactivity disorder, Dep - depression/mood/affect, SA - substance abuse & addiction, Schz - schizophrenia, Rew - reward DA - dopamine, 5-HT - serotonin, Ach - acetyl choline, NA - noradrenaline			